

ABSTRACT OF THE DISCLOSURE

A laser treatment apparatus includes a laser light source and a light guiding optical system, having an optical axis, for guiding a treatment laser beam emitted from the laser light source to a treatment part. The light guiding optical system includes: an optical fiber through which the treatment beam emitted from the laser light source is guided; a variable magnification optical system which changes a magnification of an image of an exit end face of the optical fiber to be formed on the treatment part in order to change a size of an irradiation spot of the treatment beam on the treatment part; and a beam-attenuating member having a transmittance property that a transmittance is lower in a center portion than in a peripheral portion, the beam-attenuating member being placed in a position on the optical axis where an on-axis luminous flux and an off-axis luminous flux of the treatment beam emerging from the exit end face of the optical fiber pass through the beam-attenuating member at different ratios.